

Data Validation Checklist
Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica - Savannah, GA¹
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Karen Marie Trujillo
 Concurrence²: Nicole Lancaster / Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-87545-3
 Associated Samples: Refer to Attachment A (Sample Summary)
 Samples Collected: 02/14/2013
 Date: 03/08/2013
 Date: 03/28/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (\leq 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; \leq 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.		✓			
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 021213-RB-Shovel (680-87747-31).	

¹ All analytical work subcontracted to TestAmerica of Tampa, FL

² Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank, 021213-RB-Shovel (680-87747-31) was collected during the week of 02/11/13. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87747-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> FM0161BB-CSD (680-87545-43) is a field duplicate of FM0161BB-CS (680-87545-39), which was reported under Job ID 680-87545-2. FM0161QQ-CSD (680-87545-58) is a field duplicate of FM0161QQ-CS (680-87545-57). 	
15. Was precision deemed acceptable as defined by the project plans?		✓		Refer to Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample analysis. A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> Instrument ID: BSMA5973 Initial Calibration: 02/22/2013 ICV: 02/22/13 @ 12:48 CCV: 02/25/13 @ 14:59 CCV: 02/26/13 @ 15:03 Instrument ID: BSMD5973 Initial Calibration: 02/22/2013 ICV: 02/22/13 @ 14:51 	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> ICAL (Criteria: ≤15 mean %RSD with individual CCC 		✓		ICV of 02/22/13 @ 12:48, instrument BSMA5973: 2-Methylnaphthalene @ 22.1 %D (Lab: ≤35, Project: ≤20). Positive bias is indicated by the CCV percent difference; therefore, J-flag detected 2-	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
%RSD \leq 30 (\leq 50% for poor performers), OR r \geq 0.995, OR r 2 \geq 0.99, and RRF \geq 0.050 (\geq 0.010 for poor performers): <ul style="list-style-type: none"> ○ If %RSD>15 (>50% for poor performers), or r <0.995, or r2 <0.995, then J-flag positive results and UJ-flag non-detects ○ If mean RRF <0.050 (<0.010 for poor performers), then J-flag positive results and R-flag non-detects • ICV and CCV (Criteria: \leq20%D (\leq50% for poor performers) and RF \geq0.050 (\geq0.010 for poor performers)): <ul style="list-style-type: none"> ○ If %D>20 (>50% for poor performers), then J-flag positive results and UJ-flag non-detects ○ If RF <0.050 (<0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 				methylnaphthalene results in associated samples ³	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R >Upper Control Limit (UCL) and J/R-flag results when %R <Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> • Prep Batch 134750: 680-87545-41 (FM0161DD-CS), MS/MSD • Prep Batch 134730: 680-87545-34 (FM0161W-CS), MS/MSD. Lab sample 680-87545-34 is a project-specific sample (FM0161W-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-87545-2. 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, 		✓		FM0161DD-CS (680-87545-41): <ul style="list-style-type: none"> • Acenaphthene @ 52 and 37 %R (39-130). Qualification of data not required⁴. • Benzo[a]pyrene @ 39 and 29 %R (49-130), J-flag. • Benzo[b]fluoranthene @ 41 and 32 %R (37-130). Qualification of data not required³. 	J

³ 680-87545-41through -60⁴ The recovery of either the MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
qualification of data is not warranted. <ul style="list-style-type: none"> MS and MSD %R<10: J and R Flag positive and ND results, respectively MS and MSD %R >10 and <LCL: J-Flag positive and UJ-flag non-detect results MS and MSD R% >UCL (or 140): J-Flag positive results 				<ul style="list-style-type: none"> Benzo[g,h,i] perylene @ 45 and 31% R (32-130). Qualification of data not required³. Benzo[k]fluoranthene @ 50 and 30% R (32-130). Qualification of data not required³. Chrysene @ 50 and 32 %R (41-130). Qualification of data not required³. Fluoranthene @ 41 and 29 (40-130). Qualification of data not required³. Naphthalene @ 48 and 33 %R (36-130). Qualification of data not required³. Phenanthrene @ 56 and 37 (42-130). Qualification of data not required³. Pyrene @ 42 and 31 %R (44-130), J-flag. 	
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓			FM0161DD-CS (680-87545-41): Benzo[k]fluoranthene @ 46%RPD (\leq 40), J-flag.	J
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R for 1 Acid or BN surrogates <10, then J-flag positive and R-flag non-detect associated sample results If 2 or more Acid or BN %R >UCL, then J-flag positive results If 2 or more Acid or BN %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 2 or more Acid or BN , with 1 %R >UCL and 1 %R \geq10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results If extremely low area counts are reported or performance 	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<p>exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</p> <ul style="list-style-type: none"> • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. • The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 					
29. Were lab comments included in report?	✓			Refer to Attachment C (Case Narrative)	

Comments: The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87545-41	FM0161DD-CS	Solid	02/14/13 14:04	02/16/13 09:03
680-87545-42	FM0161AN-GS	Solid	02/14/13 13:41	02/16/13 09:03
680-87545-43	FM0161BB-CSD	Solid	02/14/13 13:46	02/16/13 09:03
680-87545-44	CV0109B-CS-SP	Solid	02/14/13 13:38	02/16/13 09:03
680-87545-45	FM0161EE-CS	Solid	02/14/13 14:10	02/16/13 09:03
680-87545-46	FM0161FF-CS	Solid	02/14/13 14:18	02/16/13 09:03
680-87545-47	FM0161GG-CS	Solid	02/14/13 14:37	02/16/13 09:03
680-87545-48	FM0161HH-CS	Solid	02/14/13 14:39	02/16/13 09:03
680-87545-49	FM0161II-CS	Solid	02/14/13 14:45	02/16/13 09:03
680-87545-50	FM0161JJ-CS	Solid	02/14/13 14:48	02/16/13 09:03
680-87545-51	FM0161KK-CS	Solid	02/14/13 14:50	02/16/13 09:03
680-87545-52	FM0161LL-CS	Solid	02/14/13 14:52	02/16/13 09:03
680-87545-53	FM0161MM-CS	Solid	02/14/13 15:15	02/16/13 09:03
680-87545-54	FM0161NN-CS	Solid	02/14/13 15:21	02/16/13 09:03
680-87545-55	FM0161OO-CS	Solid	02/14/13 15:40	02/16/13 09:03
680-87545-56	FM0161PP-CS	Solid	02/14/13 15:45	02/16/13 09:03
680-87545-57	FM0161QQ-CS	Solid	02/14/13 15:47	02/16/13 09:03
680-87545-58	FM0161QQ-CSD	Solid	02/14/13 15:49	02/16/13 09:03
680-87545-59	FM0161AO-GS	Solid	02/14/13 14:21	02/16/13 09:03
680-87545-60	FM0161AP-GS	Solid	02/14/13 14:33	02/16/13 09:03

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ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0161QQ-CS 680-87545-57		RL	FM0161QQ-CSD 680-87545-58		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	13	J	55			210	µg/kg	662.5	NA	13	265	None, absolute difference \leq 2x Avg RL	
Anthracene	27		12		39	J	45	µg/kg	142.5	NA	12	57	None, absolute difference \leq 2x Avg RL
Benzo(a)anthracene	86		11		150	42	µg/kg	132.5	NA	64	53	J/UJ-flag, absolute difference > 2x Avg RL	
Benzo(a)pyrene	59		14		110	55	µg/kg	172.5	NA	51	69	None, absolute difference \leq 2x Avg RL	
Benzo(b)fluoranthene	96		17		110	65	µg/kg	205	NA	14	82	None, absolute difference \leq 2x Avg RL	
Benzo(g,h,i)perylene	55		27		80	J	110	µg/kg	342.5	NA	25	137	None, absolute difference \leq 2x Avg RL
Benzo(k)fluoranthene	39		11		60	42	µg/kg	132.5	NA	21	53	None, absolute difference \leq 2x Avg RL	
Chrysene	100		12		130	48	µg/kg	150	NA	30	60	None, absolute difference \leq 2x Avg RL	
Dibenzo(a,h)anthracene	18	J	27		42	J	110	µg/kg	342.5	NA	24	137	None, absolute difference \leq 2x Avg RL
Fluoranthene	99		27		160	110	µg/kg	342.5	NA	61	137	None, absolute difference \leq 2x Avg RL	
Fluorene	14	J	27			110	µg/kg	342.5	NA	14	137	None, absolute difference \leq 2x Avg RL	
Indeno(1,2,3-cd)pyrene	44		27		64	J	110	µg/kg	342.5	NA	20	137	None, absolute difference \leq 2x Avg RL
1-Methylnaphthalene	53	J	55		63	J	210	µg/kg	662.5	NA	10	265	None, absolute difference \leq 2x Avg RL
2-Methylnaphthalene	69		55		89	J	210	µg/kg	662.5	NA	20	265	None, absolute difference \leq 2x Avg RL
Naphthalene	75		55		83	J	210	µg/kg	662.5	NA	8	265	None, absolute difference \leq 2x Avg RL
Phenanthrene	110		11		160	42	µg/kg	132.5	NA	50	53	None, absolute difference \leq 2x Avg RL	
Pyrene	90		27		150	110	µg/kg	342.5	NA	60	137	None, absolute difference \leq 2x Avg RL	

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

Evaluation of Field Duplicate Results

Attachment B

Analyte	FM0161BB-CS 680-87545-39		RL	FM0161BB-CSD 680-87545-43		RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action	
Acenaphthylene	26	J	54		20	J	42	µg/kg	240	NA	6	96	None, absolute difference ≤ 2x Avg RL
Anthracene	33		11		25		8.9	µg/kg	49.75	NA	8	19.9	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	130		11		97		8.5	µg/kg	48.75	29	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	95		14		70		11	µg/kg	62.5	30	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	150		17		100		13	µg/kg	75	40	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	110		27		61		21	µg/kg	120	NA	49	48	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(k)fluoranthene	65		11		56		8.5	µg/kg	48.75	15	NA	NA	None, RPD ≤ 50%
Chrysene	170		12		110		9.6	µg/kg	54	43	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	34		27		26		21	µg/kg	120	NA	8	48	None, absolute difference ≤ 2x Avg RL
Fluoranthene	130		27		140		21	µg/kg	120	7	NA	NA	None, RPD ≤ 50%
Fluorene	14	J	27		9.6	J	21	µg/kg	120	NA	4.4	48	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	99		27		53		21	µg/kg	120	NA	46	48	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	75		54		47		42	µg/kg	240	NA	28	96	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	88		54		54		42	µg/kg	240	NA	34	96	None, absolute difference ≤ 2x Avg RL
Naphthalene	92		54		62		42	µg/kg	240	NA	30	96	None, absolute difference ≤ 2x Avg RL
Phenanthrene	180		11		100		8.5	µg/kg	48.75	57	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	170		27		130		21	µg/kg	120	27	NA	NA	None, RPD ≤ 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C

CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
SDG: 68087545-3

Job ID: 680-87545-3

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87545-3

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/16/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.4° C.

SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples FM0161DD-CS (680-87545-41), FM0161AN-GS (680-87545-42), FM0161BB-CSD (680-87545-43), CV0109B-CS-SP (680-87545-44), FM0161EE-CS (680-87545-45), FM0161FF-CS (680-87545-46), FM0161GG-CS (680-87545-47), FM0161HH-CS (680-87545-48), FM0161II-CS (680-87545-49), FM0161JJ-CS (680-87545-50), FM0161KK-CS (680-87545-51), FM0161LL-CS (680-87545-52), FM0161MM-CS (680-87545-53), FM0161NN-CS (680-87545-54), FM0161OO-CS (680-87545-55), FM0161PP-CS (680-87545-56), FM0161QQ-CS (680-87545-57), FM0161QQ-CSD (680-87545-58), FM0161AO-GS (680-87545-59) and FM0161AP-GS (680-87545-60) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/21/2013 and 02/22/2013 and analyzed on 02/25/2013 and 02/26/2013.

Samples FM0161AN-GS (680-87545-42)[4X], FM0161HH-CS (680-87545-48)[4X], FM0161MM-CS (680-87545-53)[4X], FM0161NN-CS (680-87545-54)[4X], FM0161OO-CS (680-87545-55)[4X], FM0161QQ-CSD (680-87545-58)[4X] and FM0161AP-GS (680-87545-60)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Sample CV0109B-CS-SP (680-87545-44) had a higher final extract volume due to extract matrix. Batch: 134730.

Several analytes recovered outside the recovery criteria for the MS/MSD of sample FM0161DD-CS (680-87545-41) in batch 660-134820.

No other difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All other quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
SDG: 68087545-3

Client Sample ID: FM0161DD-CS

Date Collected: 02/14/13 14:04

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-41

Call: 680-87545-41

**Matrix: Solid
Percent Solids: 95.6**

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U/F	100	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Acenaphthylene	8.1	J	42	5.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Anthracene	11		8.8	4.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Benzo[a]anthracene	47		8.4	4.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Benzo[a]pyrene	28 F J		11	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Benzo[b]fluoranthene	49 F		13	6.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Benzo[g,h,i]perylene	29 F		21	4.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Benzo[k]fluoranthene	20 F J		8.4	3.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Chrysene	65 F		9.4	4.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Dibenz(a,h)anthracene	16 J		21	4.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Fluoranthene	61 F		21	4.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Fluorene	5.5 J		21	4.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Indeno[1,2,3-cd]pyrene	27		21	7.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
1-Methylnaphthalene	33 J		42	4.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
2-Methylnaphthalene	47 J		42	7.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Naphthalene	47 F		42	4.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Phenanthrene	71 F		8.4	4.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Pyrene	48 F J		21	3.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 20:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	53		30 - 130				02/22/13 09:08	02/25/13 20:15	1

Client Sample ID: FM0161AN-GS

Date Collected: 02/14/13 13:41

Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-42

Matrix: Solid

Percent Solids: 97.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	81	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Acenaphthylene	160	U	160	20	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Anthracene	21	J	34	17	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Benzo[a]anthracene	33	U	33	16	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Benzo[a]pyrene	27	J	42	21	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Benzo[b]fluoranthene	120		50	25	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Benzo[g,h,i]perylene	80	J	81	18	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Benzo[k]fluoranthene	38		33	15	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Chrysene	37	U	37	18	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Dibenz(a,h)anthracene	81	U	81	17	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Fluoranthene	150		81	16	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Fluorene	81	U	81	17	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Indeno[1,2,3-cd]pyrene	34	J	81	29	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
1-Methylnaphthalene	93	J	160	18	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
2-Methylnaphthalene	93	J	160	29	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Naphthalene	110	J	160	18	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Phenanthrene	110		33	16	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Pyrene	50	J	81	15	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:31	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	58		30 - 130				02/21/13 16:21	02/26/13 22:31	4

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161BB-CSD

Date Collected: 02/14/13 13:46
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-43

Matrix: Solid
 Percent Solids: 94.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Acenaphthylene	20	J	42	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Anthracene	25		8.9	4.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Benzo[a]anthracene	97		8.5	4.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Benzo[a]pyrene	70		11	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Benzo[b]fluoranthene	100		13	6.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Benzo[g,h,i]perylene	61	J	21	4.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Benzo[k]fluoranthene	56		8.5	3.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Chrysene	110		9.6	4.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Dibenz(a,h)anthracene	26		21	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Fluoranthene	140		21	4.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Fluorene	9.6	J	21	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Indeno[1,2,3-cd]pyrene	53		21	7.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
1-Methylnaphthalene	47		42	4.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
2-Methylnaphthalene	54	J	42	7.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Naphthalene	62		42	4.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Phenanthrene	100	J	8.5	4.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Pyrene	130		21	3.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:30	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	61						02/21/13 16:21	02/25/13 16:30	1

Client Sample ID: CV0109B-CS-SP

Date Collected: 02/14/13 13:38
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-44

Matrix: Solid
 Percent Solids: 74.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	1300	U	1300	270	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Acenaphthylene	76	J	530	67	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Anthracene	91	J	110	56	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Benzo[a]anthracene	430		110	52	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Benzo[a]pyrene	230		140	69	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Benzo[b]fluoranthene	360		160	81	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Benzo[g,h,i]perylene	170	J	270	59	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Benzo[k]fluoranthene	130		110	48	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Chrysene	280		120	60	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Dibenz(a,h)anthracene	110	J	270	55	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Fluoranthene	440		270	53	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Fluorene	270	U	270	55	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Indeno[1,2,3-cd]pyrene	190	J	270	95	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
1-Methylnaphthalene	530	U	530	59	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
2-Methylnaphthalene	110	J	530	95	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Naphthalene	150	J	530	59	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Phenanthrene	310		110	52	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Pyrene	430		270	49	ug/Kg	⊗	02/21/13 16:21	02/25/13 16:45	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	61						02/21/13 16:21	02/25/13 16:45	1

TestAmerica Savannah

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 Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161EE-CS

Date Collected: 02/14/13 14:10
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-45

Matrix: Solid
 Percent Solids: 79.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	25	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Acenaphthylene	13	J	50	6.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Anthracene	19		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Benzo[a]anthracene	88		10	4.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Benzo[a]pyrene	69		13	6.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Benzo[b]fluoranthene	130		15	7.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Benzo[g,h,i]perylene	64		25	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Benzo[k]fluoranthene	30		10	4.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Chrysene	110		11	5.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Dibenz(a,h)anthracene	24	J	25	5.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Fluoranthene	96		25	5.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Fluorene	12	J	25	5.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Indeno[1,2,3-cd]pyrene	55		25	8.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
1-Methylnaphthalene	64		50	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
2-Methylnaphthalene	75	J	50	8.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Naphthalene	63		50	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Phenanthrene	120		10	4.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Pyrene	90		25	4.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:30	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		60		30 - 130			02/21/13 16:21	02/25/13 18:30	1

Client Sample ID: FM0161FF-CS

Date Collected: 02/14/13 14:18
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-46

Matrix: Solid
 Percent Solids: 82.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	24	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Acenaphthylene	11	J	48	6.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Anthracene	23		10	5.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Benzo[a]anthracene	85		9.7	4.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Benzo[a]pyrene	51		13	6.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Benzo[b]fluoranthene	93		15	7.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Benzo[g,h,i]perylene	56		24	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Benzo[k]fluoranthene	33		9.7	4.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Chrysene	100		11	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Dibenz(a,h)anthracene	19	J	24	5.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Fluoranthene	94		24	4.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Fluorene	10	J	24	5.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Indeno[1,2,3-cd]pyrene	49		24	8.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
1-Methylnaphthalene	71		48	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
2-Methylnaphthalene	89	J	48	8.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Naphthalene	69		48	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Phenanthrene	130		9.7	4.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Pyrene	75		24	4.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 18:45	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		57		30 - 130			02/21/13 16:21	02/25/13 18:45	1

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 5240
 5250
 5260
 5270
 5280
 5290

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161GG-CS

Date Collected: 02/14/13 14:37
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-47

Matrix: Solid
 Percent Solids: 74.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Acenaphthylene	18	J	54	6.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Anthracene	40		11	5.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Benzo[a]anthracene	120		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Benzo[a]pyrene	84		14	7.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Benzo[b]fluoranthene	130		16	8.2	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Benzo[g,h,i]perylene	77		27	5.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Benzo[k]fluoranthene	66		11	4.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Chrysene	160		12	6.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Dibenz(a,h)anthracene	40		27	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Fluoranthene	160		27	5.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Fluorene	21	J	27	5.5	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Indeno[1,2,3-cd]pyrene	72		27	9.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
1-Methylnaphthalene	100		54	5.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
2-Methylnaphthalene	120	J	54	9.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Naphthalene	120		54	5.9	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Phenanthrene	200		11	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Pyrene	130		27	5.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:00	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		57		30 - 130			02/21/13 16:21	02/25/13 19:00	1

Client Sample ID: FM0161HH-CS

Date Collected: 02/14/13 14:39
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-48

Matrix: Solid
 Percent Solids: 75.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Acenaphthylene	210	U	210	26	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Anthracene	32	J	44	22	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Benzo[a]anthracene	180		42	21	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Benzo[a]pyrene	87		55	27	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Benzo[b]fluoranthene	140		64	32	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Benzo[g,h,i]perylene	71	J	110	23	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Benzo[k]fluoranthene	65		42	19	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Chrysene	170		48	24	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Dibenz(a,h)anthracene	37	J	110	22	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Fluoranthene	150		110	21	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Fluorene	110	U	110	22	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Indeno[1,2,3-cd]pyrene	43	J	110	38	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
1-Methylnaphthalene	78	J	210	23	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
2-Methylnaphthalene	140	J	210	38	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Naphthalene	120	J	210	23	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Phenanthrene	160		42	21	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Pyrene	130		110	20	ug/Kg	⊗	02/21/13 16:21	02/26/13 22:46	4
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		58		30 - 130			02/21/13 16:21	02/26/13 22:46	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161II-CS

Date Collected: 02/14/13 14:45
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-49

Matrix: Solid
 Percent Solids: 70.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	29	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Acenaphthylene	14	J	57	7.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Anthracene	26		12	6.0	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Benzo[a]anthracene	110		11	5.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Benzo[a]pyrene	72		15	7.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Benzo[b]fluoranthene	110		17	8.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Benzo[g,h,i]perylene	69		29	6.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Benzo[k]fluoranthene	42		11	5.1	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Chrysene	140		13	6.4	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Dibenz(a,h)anthracene	27	J	29	5.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Fluoranthene	120		29	5.7	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Fluorene	17	J	29	5.8	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Indeno[1,2,3-cd]pyrene	52		29	10	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
1-Methylnaphthalene	86		57	6.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
2-Methylnaphthalene	96	J	57	10	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Naphthalene	98		57	6.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Phenanthrene	160		11	5.6	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Pyrene	95		29	5.3	ug/Kg	⊗	02/21/13 16:21	02/25/13 19:31	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		55		30 - 130			02/21/13 16:21	02/25/13 19:31	1

Client Sample ID: FM0161JJ-CS

Date Collected: 02/14/13 14:48
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-50

Matrix: Solid
 Percent Solids: 71.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Acenaphthylene	11	J	54	6.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Anthracene	18		11	5.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Benzo[a]anthracene	54		11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Benzo[a]pyrene	38		14	7.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Benzo[b]fluoranthene	62		17	8.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Benzo[g,h,i]perylene	40		27	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Benzo[k]fluoranthene	23		11	4.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Chrysene	94		12	6.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Dibenz(a,h)anthracene	15	J	27	5.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Fluoranthene	67		27	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Fluorene	12	J	27	5.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Indeno[1,2,3-cd]pyrene	36		27	9.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
1-Methylnaphthalene	71		54	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
2-Methylnaphthalene	75	J	54	9.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Naphthalene	85		54	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Phenanthrene	110		11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Pyrene	57		27	5.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:00	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		56		30 - 130			02/22/13 09:08	02/25/13 21:00	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161KK-CS

Date Collected: 02/14/13 14:50
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-51

Matrix: Solid
 Percent Solids: 71.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	28	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Acenaphthylene	14	J	56	7.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Anthracene	28		12	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Benzo[a]anthracene	100		11	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Benzo[a]pyrene	70		15	7.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Benzo[b]fluoranthene	120		17	8.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Benzo[g,h,i]perylene	67		28	6.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Benzo[k]fluoranthene	48		11	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Chrysene	140		13	6.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Dibenz(a,h)anthracene	30		28	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Fluoranthene	120		28	5.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Fluorene	17	J	28	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Indeno[1,2,3-cd]pyrene	57		28	10	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
1-Methylnaphthalene	100		56	6.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
2-Methylnaphthalene	130	J	56	10	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Naphthalene	120		56	6.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Phenanthrene	190		11	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Pyrene	92		28	5.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:15	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		50		30 - 130			02/22/13 09:08	02/25/13 21:15	1

Client Sample ID: FM0161LL-CS

Date Collected: 02/14/13 14:52
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-52

Matrix: Solid
 Percent Solids: 76.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Acenaphthylene	52	U	52	6.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Anthracene	16		11	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Benzo[a]anthracene	75		10	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Benzo[a]pyrene	45		14	6.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Benzo[b]fluoranthene	81		16	8.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Benzo[g,h,i]perylene	47		26	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Benzo[k]fluoranthene	29		10	4.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Chrysene	83		12	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Dibenz(a,h)anthracene	13	J	26	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Fluoranthene	82		26	5.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Fluorene	11	J	26	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Indeno[1,2,3-cd]pyrene	33		26	9.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
1-Methylnaphthalene	42	J	52	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
2-Methylnaphthalene	58	J	52	9.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Naphthalene	62		52	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Phenanthrene	97		10	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Pyrene	77		26	4.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:30	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		47		30 - 130			02/22/13 09:08	02/25/13 21:30	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161MM-CS

Date Collected: 02/14/13 15:15
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-53

Matrix: Solid
 Percent Solids: 72.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Acenaphthylene	220	U	220	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Anthracene	43	J	46	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Benzo[a]anthracene	170		44	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Benzo[a]pyrene	99		57	28	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Benzo[b]fluoranthene	150		66	33	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Benzo[g,h,i]perylene	110		110	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Benzo[k]fluoranthene	89		44	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Chrysene	160		49	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Dibenz(a,h)anthracene	36	J	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Fluoranthene	170		110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Fluorene	27	J	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Indeno[1,2,3-cd]pyrene	110		110	39	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
1-Methylnaphthalene	120	J	220	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
2-Methylnaphthalene	130	✓ J	220	39	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Naphthalene	160	J	220	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Phenanthrene	210		44	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Pyrene	130		110	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 21:45	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		65			30 - 130		02/22/13 09:08	02/25/13 21:45	4

Client Sample ID: FM0161NN-CS

Date Collected: 02/14/13 15:21
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-54

Matrix: Solid
 Percent Solids: 72.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Acenaphthylene	210	U	210	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Anthracene	45	U	45	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Benzo[a]anthracene	110		43	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Benzo[a]pyrene	50	J	56	28	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Benzo[b]fluoranthene	82		65	33	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Benzo[g,h,i]perylene	42	J	110	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Benzo[k]fluoranthene	43	U	43	19	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Chrysene	74		48	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Dibenz(a,h)anthracene	110	U	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Fluoranthene	95	J	110	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Fluorene	110	U	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Indeno[1,2,3-cd]pyrene	47	J	110	38	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
1-Methylnaphthalene	39	J	210	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
2-Methylnaphthalene	47	✓ J	210	38	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Naphthalene	53	J	210	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Phenanthrene	100		43	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Pyrene	87	J	110	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:00	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		67			30 - 130		02/22/13 09:08	02/25/13 22:00	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012).

TestAmerica Savannah

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161OO-CS

Date Collected: 02/14/13 15:40
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-55

Matrix: Solid
 Percent Solids: 73.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	550	U	550	110	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Acenaphthylene	220	U	220	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Anthracene	48		46	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Benzo[a]anthracene	180		44	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Benzo[a]pyrene	120		57	28	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Benzo[b]fluoranthene	140		67	33	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Benzo[g,h,i]perylene	91	J	110	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Benzo[k]fluoranthene	82		44	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Chrysene	140		49	25	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Dibenz(a,h)anthracene	42	J	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Fluoranthene	230		110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Fluorene	110	U	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Indeno[1,2,3-cd]pyrene	96	J	110	39	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
1-Methylnaphthalene	62	J	220	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
2-Methylnaphthalene	94	J	220	39	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Naphthalene	85	J	220	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Phenanthrene	180		44	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Pyrene	180		110	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:15	4
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		81			30 - 130		02/22/13 09:08	02/25/13 22:15	4

Client Sample ID: FM0161PP-CS

Date Collected: 02/14/13 15:45
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-56

Matrix: Solid
 Percent Solids: 74.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Acenaphthylene	16	J	53	6.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Anthracene	24		11	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Benzo[a]anthracene	97		11	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Benzo[a]pyrene	63		14	6.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Benzo[b]fluoranthene	100		16	8.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Benzo[g,h,i]perylene	68		26	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Benzo[k]fluoranthene	45		11	4.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Chrysene	100		12	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Dibenz(a,h)anthracene	25	J	26	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Fluoranthene	110		26	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Fluorene	14	J	26	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Indeno[1,2,3-cd]pyrene	49		26	9.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
1-Methylnaphthalene	58		53	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
2-Methylnaphthalene	77	J	53	9.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Naphthalene	73		53	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Phenanthrene	110		11	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Pyrene	96		26	4.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:30	1
Surrogate		%Recovery	Qualifier		Limits		Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>		54			30 - 130		02/22/13 09:08	02/25/13 22:30	1

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161QQ-CS

Date Collected: 02/14/13 15:47
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-57

Matrix: Solid
 Percent Solids: 72.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	140	U	140	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Acenaphthylene	13	J	55	6.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Anthracene	27		12	5.8	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Benzo[a]anthracene	86	J	11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Benzo[a]pyrene	59		14	7.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Benzo[b]fluoranthene	96		17	8.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Benzo[g,h,i]perylene	55		27	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Benzo[k]fluoranthene	39		11	4.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Chrysene	100		12	6.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Dibenz(a,h)anthracene	18	J	27	5.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Fluoranthene	99		27	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Fluorene	14	J	27	5.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Indeno[1,2,3-cd]pyrene	44		27	9.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
1-Methylnaphthalene	53	J	55	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
2-Methylnaphthalene	69	J	55	9.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Naphthalene	75		55	6.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Phenanthrene	110		11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Pyrene	90		27	5.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	49		30 - 130				02/22/13 09:08	02/25/13 22:45	1

Client Sample ID: FM0161QQ-CSD

Date Collected: 02/14/13 15:49
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-58

Matrix: Solid
 Percent Solids: 74.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	530	110	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Acenaphthylene	210	U	210	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Anthracene	39	J	45	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Benzo[a]anthracene	150	J	42	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Benzo[a]pyrene	110		55	28	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Benzo[b]fluoranthene	110		65	32	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Benzo[g,h,i]perylene	80	J	110	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Benzo[k]fluoranthene	60		42	19	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Chrysene	130		48	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Dibenz(a,h)anthracene	42	J	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Fluoranthene	160		110	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Fluorene	110	U	110	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Indeno[1,2,3-cd]pyrene	64	J	110	38	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
1-Methylnaphthalene	63	J	210	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
2-Methylnaphthalene	89	X J	210	38	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Naphthalene	83	J	210	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Phenanthrene	160		42	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Pyrene	150		110	20	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:01	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	62		30 - 130				02/22/13 09:08	02/25/13 23:01	4

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87545-3
 SDG: 68087545-3

Client Sample ID: FM0161AO-GS

Date Collected: 02/14/13 14:21
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-59

Matrix: Solid
 Percent Solids: 74.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Acenaphthylene	8.6	J	54	6.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Anthracene	19		11	5.7	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Benzo[a]anthracene	77		11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Benzo[a]pyrene	49		14	7.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Benzo[b]fluoranthene	89		16	8.2	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Benzo[g,h,i]perylene	57		27	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Benzo[k]fluoranthene	13		11	4.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Chrysene	92		12	6.1	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Dibenz(a,h)anthracene	19	J	27	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Fluoranthene	73		27	5.4	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Fluorene	12	J	27	5.5	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Indeno[1,2,3-cd]pyrene	34		27	9.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
1-Methylnaphthalene	85		54	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
2-Methylnaphthalene	100	J	54	9.6	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Naphthalene	92		54	5.9	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Phenanthrene	130		11	5.3	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Pyrene	72		27	5.0	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:16	1
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	47						02/22/13 09:08	02/25/13 23:16	1

Client Sample ID: FM0161AP-GS

Date Collected: 02/14/13 14:33
 Date Received: 02/16/13 09:03

Lab Sample ID: 680-87545-60

Matrix: Solid
 Percent Solids: 66.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	580	U	580	120	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Acenaphthylene	35	J	230	29	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Anthracene	52		49	25	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Benzo[a]anthracene	210		47	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Benzo[a]pyrene	130		61	30	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Benzo[b]fluoranthene	240		71	36	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Benzo[g,h,i]perylene	160		120	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Benzo[k]fluoranthene	95		47	21	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Chrysene	340		53	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Dibenz(a,h)anthracene	84	J	120	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Fluoranthene	270		120	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Fluorene	60	J	120	24	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Indeno[1,2,3-cd]pyrene	120		120	42	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
1-Methylnaphthalene	330		230	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
2-Methylnaphthalene	390	J	230	42	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Naphthalene	380		230	26	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Phenanthrene	510		47	23	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Pyrene	230		120	22	ug/Kg	⊗	02/22/13 09:08	02/25/13 23:31	4
Surrogate							Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	56						02/22/13 09:08	02/25/13 23:31	4

TestAmerica Savannah

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 Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)